I claim:

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1	A convertible rongeur comprising
2	a front handle piece pivotably attached to a pivot point in a bottom shaft piece
3	having a tip portion and a handle portion,
4	engagement means whereby said front handle piece is being releaseably engaged
5	with a top shaft cutting piece so as to slideably advance and retract said top
6	shaft cutting piece relative to the tip portion of said bottom shaft piece when
7	said front handle piece is compressed relative to said handle portion of said
8	bottom shaft piece,
9	spring means to resist said compression and hold said front handle piece apart
10	from said handle portion of said bottom shaft piece,
11	wherein release means permits said top shaft cutting piece to open from the
12	front, to allow access for cleaning,
13	and wherein said top shaft, when so opened, remains attached by attachment
14	means to the remainder of the rongeur, so as to retain all parts of said
15	rongeur in one attached unit at all times.
1	2 [A] The second is claim 1 subscript and a second
1	2. [A] <u>The</u> rongeur as in claim 1, wherein said engagement means comprises a driving
2	slot in the top end of said front handle piece that engages a driving pin in said top shaft.
1	3. [A] The rongeur as in claim 2, wherein said release means comprises a retractable
2	mounting for said front handle piece, which when biased so as to retract said front han-
3	dle piece, permits said driving pin to unseat from said driving slot and slide over said top
4	end of said front handle piece.
1	4. [A] The rongeur as in claim 3, wherein said front handle can also be retracted so that
2	said driving pin may slide back over said top end of said front handle piece so as to re-
3	seat in said driving slot.
1	5. [A] The rongeur as in claim 1, wherein said attachment means comprises a metal link
2	pivotally attached at one end thereof to the rear portion of said top shaft cutting piece
3	"and a central point on the top side" to of said bottom shaft piece.
J	and a contrat point on the top side to or suite bottom shart piece.
1	6. [A] The rongeur as in claims 3 or 4, wherein said driving slot is positioned so as to
2	slant rearward at the top at an angle of approximately 14 degrees from the vertical, and
	

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3	wherein said front handle piece comprises a radius and a ramp to the rear of said slot so
4	as to facilitate the sliding of said driving pin over said top end of said front handle piece.
1	7. [A] The rongeur as in claim 3, wherein said spring means comprise two elongated
2	spring pieces each having a top and bottom end, the bottom ends of which are attached,
3	respectively, to said front handle piece and said handle portion of said bottom shaft
4	piece, and the top ends of which are rotatably or hingably joined together in a manner
5	such that said springs do not readily detach from each other when said front handle piece
6	is loosened or retracted.
1	8. A convertible rongeur comprising
2	a front handle piece;
3	a bottom shaft piece moveably attached to said front handle piece, said bottom shaft piece
4	having a tip portion and a handle portion, said front handle piece being compressed to-
5	ward said handle portion of said bottom shaft piece to operate said rongeur; and
6	a top shaft cutting piece moveably engaged with said tip portion of said bottom shaft piece,
7	said top shaft cutting piece being/disengageable/with said tip portion of said bottom shaft
8	piece;
9	wherein, when said top shaft cutting piece is disengaged from said tip portion of said bottom
10	shaft piece, said top shaft cutting piece remains attached to said rongeur so as to retain all
11	parts of said rongeur in one attached unit.

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